

On page 4, following the paragraph on lines 20-23, insert the following new paragraph:

A3 --SUMMARY OF THE INVENTION--

Replace the paragraph on page 5, lines 25-29 with the following new paragraph:

A4 --If the step pattern select signal ( $W_t$ ) is derived on the basis of a combined value ( $U_t$ ) and one or more previously derived step pattern select signals ( $W_{t-1}$ ), a very simple and unpredictable way of deriving the step pattern select signal ( $W_t$ ) is obtained.--

Replace the paragraph on page 5, line 34 to page 6, line 3 with the following paragraph:

A5 --In an alternative embodiment, the plurality of sequence generation means (201) is further adapted to output a plurality of step control values ( $u_t$ ), and the combined value ( $U_t$ ) is provided on the basis of the plurality of step control values ( $u_t$ ) and on the basis of a plurality of prior clock values ( $C_{t-1}$ ).--

Replace the paragraph on page 6, lines 8-12 with the following new paragraph:

A6 --A simple way of calculating a step pattern select signal ( $W_t$ ) is obtained, if the number of the plurality of possible step patterns is 6, and the pattern select signal ( $W_t$ ) is derived as:  $U_t + W_{t-1} \text{ MOD } 6$ .--

Replace the paragraph on page 6, lines 23-29 with the following new paragraph:

A7 --Alternatively, if the number of the plurality of possible step patterns is 6, and the pattern select signal ( $W_t$ ) is derived as:  $U_t + a_1 W_{t-1} + a_2 W_{t-2} + a_3 W_{t-3} \text{ MOD } 6$ , where  $a_1$ ,  $a_2$  and  $a_3$  are preselected constants, an even better, i.e., resulting in a more unpredictable output PN sequence, way of computing the pattern select signal ( $W_t$ ) is obtained.--

Replace the paragraph on page 6, lines 31-36 with the following new paragraph:

A8 --Alternatively, if the number of the plurality of possible step patterns is not a prime number, then the pattern select signal ( $W_t$ ) is derived on the basis of the combined value ( $U_t$ ) and the previously derived step pattern

select signals ( $W_{t-1}$ ) using a Chinese remaindering technique.--

Replace the paragraph on page 7, lines 10-13 with the following new paragraph:

A9 --This is obtained by choosing the plurality of possible patterns to be: (0,0,1,1), (0,1,0,1), (1,0,0,1), (0,1,1,0), (1,0,1,0), (1,1,0,0).--

Replace the paragraph on page 7, lines 22-25 with the following new paragraph:

A10 --In a preferred embodiment, the device further comprises a function generating means (203) adapted to calculate an output value ( $Out_t$ ) as the sum of the plurality of sequence values ( $z_t$ ) MOD 2.--

Replace the paragraph on page 7, lines 27-29 with the following new paragraph:

A11 --In a preferred embodiment, the plurality of sequence generation means are m-sequence generators.--

Replace the paragraph on page 9, lines 29-31 with the following new paragraph:

A12 --This is obtained when the plurality of possible step patterns is: (0,0,1,1), (0,1,0,1), (1,0,0,1), (0,1,1,0), (1,0,1,0), (1,1,0,0).--

On page 10, following the paragraph on lines 14-16, insert the following new paragraph:

A13 --BRIEF DESCRIPTION OF THE DRAWINGS--

On page 11, following the paragraph on lines 8-10, insert the following new paragraph:

A14 --DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS--

On page 21, following the paragraph on lines 19-22, insert the following new paragraph:

A15 --Although various embodiments of the invention are described herein, it should be recognized that the invention may be varied in numerous ways. Accordingly, it should be understood that the invention should be limited only insofar as is required by the scope of the following claims.--